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SESSION RESUMED IN FILE 'IFIPAT, CAPLUS, BIOSIS, TOXCENTER'
AT 14:29:08 ON 17 SEP 2005

FILE 'IFIPAT' ENTERED AT 14:29:08 ON 17 SEP 2005
COPYRIGHT (C) 2005 IFI CLAIMS(R) Patent Services (IFI)

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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ibib

L4 ANSWER 1 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN

AN 10809930 IFIPAT;IFIUDB;IFICDB

TITLE: SYSTEM AND METHOD FOR DELIVERING

POLYNUCLEOTIDES TO

THE CENTRAL NERVOUS SYSTEM

INVENTOR(S): Hildebrand; Keith R., Houlton, WI, US

Kaemmerer; William F., Edina, MN, US

PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, US

AGENT: MEDTRONIC, INC., 710 MEDTRONIC PARKWAY NE, MS-
LC340,

MINNEAPOLIS, MN, 55432-5604, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2005048641	A1	20050303
APPLICATION INFORMATION:	US 2004-962732		20041012

PATENT NO.	APPLN. NUMBER	DATE	OR STATUS
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CONTINUATION-IN-PART OF:	US 2003-721693	20031125	PENDING
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CONTINUATION-IN-PART OF:	US 2004-852997	20040525	PENDING
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	NUMBER	DATE	
PRIORITY APPLN. INFO.:	US 2002-429387P	20021126	(Provisional)
FAMILY INFORMATION:	US 2005048641	20050303	

DOCUMENT TYPE: Utility
Patent Application - First Publication
FILE SEGMENT: CHEMICAL
APPLICATION

PARENT CASE DATA:

This application is a Continuation-in-Part of applications Ser. Nos. 10/721,693 and 10/852,997, respectively filed on Nov. 25, 2003 and May 25, 2004, which Applications claims priority to Provisional Applications Serial Nos. 60/429,387 and 60/444,614, respectively filed on Nov. 26, 2002 and Feb. 3, 2003, each of which applications are herein incorporated by reference in their respective entirety.

NUMBER OF CLAIMS: 106 4 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 is a diagrammatic illustration of a system for delivering a composition comprising a therapeutic agent according to an embodiment of the present invention.

FIG. 2 is a diagrammatic illustration of a catheter implanted in a patient according to an embodiment of the present invention.

FIG. 3 is a diagrammatic illustration of a catheter implanted in a patient according to an embodiment of the present invention.

FIG. 4 is a diagrammatic illustration of a system for delivering a composition comprising a therapeutic agent according to an embodiment of the present invention.

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.53	16.13

=> ibib 1-4

IBIB IS NOT A RECOGNIZED COMMAND

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=> d his

(FILE 'HOME' ENTERED AT 14:21:14 ON 17 SEP 2005)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 14:22:13 ON 17 SEP 2005

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8 FILE CAPLUS
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0* FILE PHARMAML
0* FILE PHIC
0* FILE PHIN
0* FILE PROUSDDR
0* FILE RDISCLOSURE
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18 FILE USPATFULL
2 FILE USPAT2
L1 QUE "KAEMMERER WILLIAM F"/AU
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FILE 'IFIPAT, CAPLUS, BIOSIS, TOXCENTER' ENTERED AT 14:23:40 ON 17
SEP 2005
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L3 26 DUP REM L2 (12 DUPLICATES REMOVED)
L4 4 S L3 AND SCA1

=> d ti l4 1-4

L4 ANSWER 1 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN
TI SYSTEM AND METHOD FOR DELIVERING POLYNUCLEOTIDES TO THE CENTRAL
NERVOUS
SYSTEM

L4 ANSWER 2 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN
TI TREATMENT OF NEURODEGENERATIVE DISEASE THROUGH INTRACRANIAL
DELIVERY OF
SIRNA

L4 ANSWER 3 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN
TI TREATMENT OF NEURODEGENERATIVE DISEASE THROUGH INTRACRANIAL
DELIVERY OF
SIRNA

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
TI Treatment of neurodegenerative disease through intracranial
delivery of
sirna

=> di ibib l4 1-4
DI IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter

```

"HELP COMMANDS" at an arrow prompt (=>).

=> d ibib l4 1-4

L4 ANSWER 1 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN
AN 10809930 IFIPAT;IFIUDB;IFICDB
TITLE: SYSTEM AND METHOD FOR DELIVERING
POLYNUCLEOTIDES TO
THE CENTRAL NERVOUS SYSTEM
INVENTOR(S): Hildebrand; Keith R., Houlton, WI, US
Kaemmerer; William F., Edina, MN, US
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, US
AGENT: MEDTRONIC, INC., 710 MEDTRONIC PARKWAY NE, MS-
LC340,
MINNEAPOLIS, MN, 55432-5604, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2005048641	A1	20050303
APPLICATION INFORMATION:	US 2004-962732		20041012

PATENT NO.	APPLN. NUMBER	DATE	GRANTED OR STATUS
CONTINUATION-IN-PART OF:	US 2003-721693	20031125	PENDING
CONTINUATION-IN-PART OF:	US 2004-852997	20040525	PENDING

	NUMBER	DATE
PRIORITY APPLN. INFO.:	US 2002-429387P	20021126 (Provisional)
FAMILY INFORMATION:	US 2005048641	20050303
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Patent Application - First Publication	
	CHEMICAL	
	APPLICATION	

PARENT CASE DATA:

This application is a Continuation-in-Part of applications Ser. Nos. 10/721,693 and 10/852,997, respectively filed on Nov. 25, 2003 and May 25, 2004, which Applications claims priority to Provisional Applications Serial Nos. 60/429,387 and 60/444,614, respectively filed on Nov. 26, 2002 and Feb. 3, 2003, each of which applications are herein incorporated by reference in their respective entirety.

NUMBER OF CLAIMS: 106 4 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 is a diagrammatic illustration of a system for delivering a composition comprising a therapeutic agent according to an embodiment of the present invention.
FIG. 2 is a diagrammatic illustration of a catheter implanted in a patient according to an embodiment of the present invention.

FIG. 3 is a diagrammatic illustration of a catheter implanted in a patient according to an embodiment of the present invention.
 FIG. 4 is a diagrammatic illustration of a system for delivering a composition comprising a therapeutic agent according to an embodiment of the present invention.

L4 ANSWER 2 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN
 AN 10712883 IFIPAT;IFIUDB;IFICDB
 TITLE: TREATMENT OF NEURODEGENERATIVE DISEASE THROUGH INTRACRANIAL DELIVERY OF SIRNA
 INVENTOR(S): Kaemmerer; William F., Edina, MN, US
 PATENT ASSIGNEE(S): Medtronic, Inc., US
 AGENT: Kenneth J. Collier;Medtronic, Inc., 710 Medtronic Parkway N.E., Minneapolis, MN, 55432, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2004220132	A1	20041104
APPLICATION INFORMATION:	US 2004-852997		20040525

PATENT NO.	APPLN. NUMBER	DATE	GRANTED OR STATUS
CONTINUATION-IN-PART OF:	US 2003-721693	20031125	PENDING

	NUMBER	DATE	
PRIORITY APPLN. INFO.:	US 2002-429387P	20021126	(Provisional)
	US 2003-444614P	20030203	(Provisional)
FAMILY INFORMATION:	US 2004220132	20041104	
DOCUMENT TYPE:	Utility Patent Application - First Publication		
FILE SEGMENT:	CHEMICAL APPLICATION		

NUMBER OF CLAIMS: 152 11 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 shows the assay (using a quantitative RT-PCR method known to those practiced in the art) of the ataxin1 mRNA obtained from HEK293H cells that have been transfected with plasmid containing an anti-ataxin1 ribozyme (top lanes in FIG. 1) or with siRNA against ataxin1 (bottom lanes of FIG. 1).
 FIG. 2 shows the assay (using the same quantitative RT-PCR method known to those practiced in the art) of the ataxin-1 mRNA obtained from HEK293H cells that have been transfected with anti-ataxin-1 small interfering RNA (bottom lanes) compared to the mRNA obtained from HEK293H cells that have been transfected with a control siRNA that targets the mRNA for glyceraldehyde-3-phosphate dehydrogenase (GAPDH)
 FIG. 3 shows the construction of the adeno-associated virus expression vector

pAAV-siRNA.

FIG. 4 illustrates an investigational device (by Medtronic, Inc. of Minneapolis, Minn. Model 8506), which can be implanted subcutaneously on the

cranium, and provides an access port through which therapeutic agents may be

delivered to the brain.

FIG. 5 illustrates an investigational device (by Medtronic, Inc. of Minneapolis, Minn. schematic of Model 8506), which can be implanted subcutaneously on the cranium, and provides an access port through which therapeutic agents may be delivered to the brain.

FIG. 6 illustrates the relation of various neurodegenerative diseases described

herein, and the location of treatment with small interfering RNA vectors directed to their intended targeted gene product.

FIG. 7 contains three views of brain tissue section number 67 from a consecutive series of parasagittal brain tissue sections from the left hemisphere of mouse number three from administration of an AAV vector encoding

for green fluorescent protein to a C57Bl/6 mouse.

FIG. 8 contains photographs of multiple brain tissue sections throughout the

left hemisphere of this mouse number 3, from section 29 (lateral) to section

125 (near the midline of the animal, in the sagittal plane) from administration

of the AAV vector encoding for green fluorescent protein.

FIG. 9 is a comparison of treated and control Tg2576 mice receiving contextual

fear conditioning at 15 months of age after those mice had been

neurosurgically

treated at 12 months of age with an AAV vector encoding for anti-BACE1 siRNA or

an AAV vector encoding for a control siRNA expected to be inactive with respect

to suppressing BACE1 mRNA.

FIG. 10 illustrates immunostaining for BACE1 protein in normal mouse hippocampus.

FIGS. 11A, 11B, and 11C is a sequence alignment of our sheep huntington gene

sequence with the human Huntington gene sequence available in Genbank (NM

002111.3).

L4 ANSWER 3 OF 4 IFIPAT COPYRIGHT 2005 IFI on STN

AN 10655022 IFIPAT;IFIUDB;IFICDB

TITLE: TREATMENT OF NEURODEGENERATIVE DISEASE THROUGH INTRACRANIAL DELIVERY OF SIRNA

INVENTOR(S): Kaemmerer; William F., Edina, MN, US

PATENT ASSIGNEE(S): Medtronic, Inc., US

AGENT: Kenneth J. Collier;Medtronic, Inc., 710

Medtronic

Parkway, N. E., Minneapolis, MN, 55432, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2004162255	A1	20040819
APPLICATION INFORMATION:	US 2003-721693		20031125

NUMBER	DATE
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PRIORITY APPLN. INFO.: US 2002-429387P 20021126 (Provisional)
US 2003-444614P 20030203 (Provisional)
FAMILY INFORMATION: US 2004162255 20040819
DOCUMENT TYPE: Utility
Patent Application - First Publication
FILE SEGMENT: CHEMICAL
APPLICATION

NUMBER OF CLAIMS: 84 6 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 shows the assay (using a quantitative RT-PCR method known to those practiced in the art) of the ataxin1 mRNA obtained from HEK293H cells that have been transfected with plasmid containing an anti-ataxin1 ribozyme (top lanes in FIG. 1) or with siRNA against ataxin1 (bottom lanes of FIG. 1). FIG. 2 shows the assay (using the same quantitative RT-PCR method known to those practiced in the art) of the ataxin-1 mRNA obtained from HEK293H cells that have been transfected with anti-ataxin-1 small interfering RNA (bottom lanes) compared to the mRNA obtained from HEK293H cells that have been transfected with a control siRNA that targets the mRNA for glyceraldehyde-3-phosphate dehydrogenase (GAPDH). FIG. 3 shows the construction of the adeno-associated virus expression vector pAAV-siRNA. FIG. 4 illustrates an investigational device (by Medtronic, Inc. of Minneapolis, Minn. Model 8506), which can be implanted subcutaneously on the cranium, and provides an access port through which therapeutic agents may be delivered to the brain. FIG. 5 illustrates an investigational device (by Medtronic, Inc. of Minneapolis, Minn. schematic of Model 8506), which can be implanted subcutaneously on the cranium, and provides an access port through which therapeutic agents may be delivered to the brain. FIG. 6 illustrates the relation of various neurodegenerative diseases described herein, and the location of treatment with small interfering RNA vectors directed to their intended targeted gene product.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:467767 CAPLUS
DOCUMENT NUMBER: 141:42984
TITLE: Treatment of neurodegenerative disease through intracranial delivery of siRNA
INVENTOR(S): ***Kaemmerer, William F.***
PATENT ASSIGNEE(S): Medtronic, Inc., USA
SOURCE: PCT Int. Appl., 228 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 WO 2004047872 A2 20040610 WO 2003-US37650
 20031126
 WO 2004047872 A3 20050203
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
 CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,
 GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
 LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI,
 NO,
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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 TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
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 SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG
 CA 2507606 AA 20040610 CA 2003-2507606
 20031126
 EP 1569662 A2 20050907 EP 2003-790026
 20031126
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRIORITY APPLN. INFO.: US 2002-429387P P
 20021126
 US 2003-444614P P
 20030203
 WO 2003-US37650 W
 20031126

=> file medline biosis caplus embase
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SINCE FILE	TOTAL
ENTRY	SESSION
24.76	26.36

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FILE 'BIOSIS' ENTERED AT 14:31:32 ON 17 SEP 2005
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=> s sca or scal or ataxin-1 or ataxin1 or spinocerebellar(a)ataxia
 L5 12938 SCA OR SCAL OR ATAXIN-1 OR ATAXIN1 OR SPINOCEREBELLAR(A)
 ATAXIA

=> s antisense

L6 107019 ANTISENSE

=> s sirna

L7 9194 SIRNA

=> s 15 and 17

L8 18 L5 AND L7

=> dup rem

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L9 12 DUP REM L8 (6 DUPLICATES REMOVED)

=> d ti so au py 19 1-12

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI Oligoribonucleotide siRNAs targeting transglutaminase II and methods of

their use for treatment of fibrotic conditions and other diseases

SO PCT Int. Appl., 127 pp.

CODEN: PIXXD2

IN Mor, Orna; Feinstein, Elena

PY 2005

2005

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI Viral vectors for ***siRNA*** -mediated gene silencing and their use in

therapy of cancer and neurodegenerative diseases

SO U.S. Pat. Appl. Publ., 29 pp.

CODEN: USXXCO

IN Davidson, Beverly L.; Xia, Haibin; Mao, Qinwen

PY 2005

2004

2004

2004

2004

2004

2005

2005

2005

2004

2005

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI RNA interference-mediated treatment of polyglutamine repeat expansion

diseases using short interfering nucleic acids

SO U.S. Pat. Appl. Publ., 132 pp., Cont.-in-part of U.S. Ser. No. 57,803.

CODEN: USXXCO

IN McSwiggen, James

PY 2005

1998

2001

1999

2004

2002

2003

2004

2003

2004
2004
2004
2005
2005
2005

L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
TI Viral vectors for ***siRNA*** -mediated gene silencing of
huntingtin or
ataxin - ***1*** for treatment of neurodegenerative
diseases

SO U.S. Pat. Appl. Publ., 69 pp., Cont.-in-part of Appl. No.
PCT/US03/16887.

CODEN: USXXCO

IN Davidson, Beverly L.; Xia, Haibin; Mao, Qinwen; Paulson, Henry;
Boudreau,
Ryan L.

PY 2005
2005
2004
2004

L9 ANSWER 5 OF 12 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
RESERVED.

on STN

TI ***siRNA*** as a new drug: Intellectual property.

SO Expert Opinion on Therapeutic Patents, (2005) Vol. 15, No. 2, pp.
141-152.

Refs: 85

ISSN: 1354-3776 CODEN: EOTPEG

AU Schiffelers R.M.; van Kolfschoten S.C.; van Dijk M.; Scaria P.V.;
Woodle

M.C.; Storm G.

PY 2005

L9 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI Small interference RNA targeting gene ***Sca*** -2 and HIV genes
for
cancer and AIDS gene therapy

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

IN Chang, Lung-ji; He, Jin

PY 2004
2005

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI Treatment of neurodegenerative disease through intracranial
delivery of

siRNA

SO PCT Int. Appl., 228 pp.

CODEN: PIXXD2

IN Kaemmerer, William F.

PY 2004
2005
2004
2005

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

TI Treatment of neurodegenerative disease through intracranial
delivery of

siRNAs against proteins associated with the diseases
 SO U.S. Pat. Appl. Publ., 206 pp., Cont.-in-part of U.S. Ser. No.
 721,693.
 CODEN: USXXCO
 IN Kaemmerer, William F.
 PY 2004
 2004
 2005

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Methods and viral vectors for ***siRNA*** -mediated gene
 silencing in
 treatment of diseases
 SO U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No.
 322086,
 abandoned.
 CODEN: USXXCO
 IN Davidson, Beverly L.; Xia, Haibin; Mao, Qinwen
 PY 2004
 2005
 2004
 2004
 2004
 2004
 2005
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 2004
 2005

L9 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
 on
 STN
 TI Ataxin-10, the ***spinocerebellar*** ***ataxia*** type 10
 neurodegenerative disorder protein, is essential for survival of
 cerebellar neurons.
 SO Journal of Biological Chemistry, (August 20 2004) Vol. 279, No. 34,
 pp.
 35542-35550. print.
 CODEN: JBCHA3. ISSN: 0021-9258.
 AU Marz, Pia [Reprint Author]; Probst, Alphonse; Lang, Sigrid;
 Schwager,
 Martine; Rose-John, Stefan; Otten, Uwe; Ozbek, Suat
 PY 2004

L9 ANSWER 11 OF 12 MEDLINE on STN
 TI Functional characterization of hepatoma-specific stem cell antigen-
 2.
 SO Molecular carcinogenesis, (2004 Jun) 40 (2) 90-103.
 Journal code: 8811105. ISSN: 0899-1987.
 AU He Jin; Chang Lung-Ji
 PY 2004

L9 ANSWER 12 OF 12 MEDLINE on STN
 TI Allele-specific silencing of dominant disease genes.
 SO Proceedings of the National Academy of Sciences of the United
 States of
 America, (2003 Jun 10) 100 (12) 7195-200. Electronic Publication:
 2003-06-02.

Journal code: 7505876. ISSN: 0027-8424.
AU Miller Victor M; Xia Haibin; Marrs Ginger L; Gouvion Cynthia M; Lee
Gloria; Davidson Beverly L; Paulson Henry L
PY 2003

=> d his

(FILE 'HOME' ENTERED AT 14:21:14 ON 17 SEP 2005)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE,
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AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS,
BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,
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CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 14:22:13 ON 17
SEP 2005

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SEA E6

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0* FILE ADISNEWS
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6 FILE BIOSIS
8 FILE CAPLUS
0* FILE CIN
0* FILE DRUGMONOG2
0* FILE FOREGE
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0* FILE IMSRESEARCH
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0* FILE PCTGEN
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0* FILE PHIN
0* FILE PROUSDDR
0* FILE RDISCLOSURE
4 FILE TOXCENTER
18 FILE USPATFULL
2 FILE USPAT2

L1 QUE "KAEMMERER WILLIAM F"/AU

FILE 'IFIPAT, CAPLUS, BIOSIS, TOXCENTER' ENTERED AT 14:23:40 ON 17
SEP 2005

L2 38 S L1
L3 26 DUP REM L2 (12 DUPLICATES REMOVED)
L4 4 S L3 AND SCA1

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 14:31:32 ON 17
SEP 2005

L5 12938 S SCA OR SCA1 OR ATAXIN-1 OR ATAXIN1 OR SPINOCEREBELLAR
(A)ATAXI
L6 107019 S ANTISENSE
L7 9194 S SIRNA
L8 18 S L5 AND L7

L9 12 DUP REM L8 (6 DUPLICATES REMOVED)

=> s 15 and 16

L10 64 L5 AND L6

=> dup rem

ENTER L# LIST OR (END):110

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L11 46 DUP REM L10 (18 DUPLICATES REMOVED)

=> d ti so au py l11 1-46

L11 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Oligonucleotide inhibitors of TGF-R signaling for treatment of human CNS

disorders

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

IN Bogdahn, Ulrich; Aigner, Ludwig

PY 2005

L11 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Protein and cDNA sequences of a novel ***spinocerebellar***

ataxia -2 (SCA2) from human and mouse

SO U.S., 50 pp., Cont.-in-part of U.S. Ser. No. 727,084, abandoned.

CODEN: USXXAM

IN Pulst, Stefan M.

PY 2005

1997

2005

L11 ANSWER 3 OF 46 MEDLINE on STN

DUPLICATE 1

TI The AUUCU repeats responsible for ***spinocerebellar***

ataxia

type 10 form unusual RNA hairpins.

SO Journal of biological chemistry, (2005 Aug 12) 280 (32) 29340-5.

Electronic Publication: 2005-06-20.

Journal code: 2985121R. ISSN: 0021-9258.

AU Handa Vaishali; Yeh Herman J C; McPhie Peter; Usdin Karen

PY 2005

L11 ANSWER 4 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Methods of detecting ***spinocerebellar*** ***Ataxia*** -2 nucleic

acids.

SO Official Gazette of the United States Patent and Trademark Office Patents,

(Jan 6 2004) Vol. 1278, No. 1.

<http://www.uspto.gov/web/menu/patdata.html>.

e-file.

ISSN: 0098-1133 (ISSN print).

AU Pulst, Stefan M. [Inventor, Reprint Author]

PY 2004

L11 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Purification, cloning and characterization of L-amino acid oxidase with

cytotoxic activity from Aplysia punctata and use for the diagnosis

and

treatment of cancer

SO PCT Int. Appl., 125 pp.
 CODEN: PIXXD2
 IN Butzke, Daniel; Goedert, Sigrid; Dittrich, Michael; Rudel, Thomas;
 Meyer, Thomas F.
 PY 2004
 2005

L11 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Isolated N-cad+/CD45- osteoblasts which form niches that support
 hematopoietic stem cell (HSC), Bmp1a-knocked-out mice containing
 the same, and uses thereby
 SO U.S. Pat. Appl. Publ., 32 pp.
 CODEN: USXXCO
 IN Li, Linheng; Zhang, Jiwang
 PY 2004
 2004
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L11 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Methods for modulating mammalian cell survival by modulating
 huntingtin protein function, and uses in therapy, prophylaxis and diagnosis
 SO U.S. Pat. Appl. Publ., 66 pp., Cont.-in-part of U.S. Pat. Appl.
 2002 187,931.
 CODEN: USXXCO
 IN Hayden, Michael; Hackam, Abigail; Leavitt, Blair R.; Chan, Edmond
 PY 2004
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L11 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Methods to overcome inhibition of growth cone translocation
 SO U.S. Pat. Appl. Publ., 17 pp.
 CODEN: USXXCO
 IN Lanier, Lorene M.; Gertler, Frank B.
 PY 2004

L11 ANSWER 9 OF 46 MEDLINE on STN DUPLICATE 2
 TI Stem cell antigen-1 is necessary for cell-cycle withdrawal and
 myoblast differentiation in C2C12 cells.
 SO Journal of cell science, (2004 Dec 1) 117 (Pt 25) 6185-95.
 Electronic
 Publication: 2004-11-16.
 Journal code: 0052457. ISSN: 0021-9533.
 AU Epting Conrad L; Lopez Javier E; Shen Xun; Liu Liansen; Bristow
 James;
 Bernstein Harold S
 PY 2004

L11 ANSWER 10 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Enzyme-deficient C3 botulinum protein species and their use to
 promote neuronal growth and neuronal regeneration
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 IN Just, Ingo; Hofmann, Fred; Ahnert-Hilger, Gudrun; Grosse, Gisela

PY 2003
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L11 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI cDNAs encoding mouse and human DNA polymerase .kappa. and their use
in
diagnosis and treatment of cancer and trinucleotide repeat diseases
SO U.S. Pat. Appl. Publ., 83 pp.
CODEN: USXXCO
IN Friedberg, Errol C.; Gerlach, Valerie; Feaver, William J.
PY 2003

L11 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Structures of trinucleotide repeats in human transcripts and their
functional implications
SO Nucleic Acids Research (2003), 31(19), 5463-5468
CODEN: NARHAD; ISSN: 0305-1048
AU Jasinska, Anna; Michlewski, Gracjan; de Mezer, Mateusz; Sobczak,
Krzysztof; Kozlowski, Piotr; Napierala, Marek; Krzyzosiak,
Wlodzimierz J.
PY 2003

L11 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Understanding the dynamics of ***Spinocerebellar***
Ataxia 8
(SCA8) locus through a comparative genetic approach in humans and
apes
SO Neuroscience Letters (2003), 336(3), 143-146
CODEN: NELED5; ISSN: 0304-3940
AU Andres, A. M.; Soldevila, M.; Saitou, N.; Volpini, V.; Calafell,
F.;
Bertranpetit, J.
PY 2003

L11 ANSWER 14 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI ***Spinocerebellar*** ***ataxia*** 8 (SCA8)
SO Genetics of Movement Disorders (2003), 95-102. Editor(s): Pulst,
Stefan-M. Publisher: Elsevier Science, San Diego, Calif.
CODEN: 69DIVT; ISBN: 0-12-566652-7
AU Koob, Michael D.
PY 2003

L11 ANSWER 15 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Identification, cloning, characterization and use of human
mitochondrial
apoptosis modulator protein Bcl-B
SO PCT Int. Appl., 82 pp.
CODEN: PIXXD2
IN Reed, John C.; Ke, Ning; Godzik, Adam
PY 2002
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L11 ANSWER 16 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Transgenic Drosophila models using human ***ataxin*** - ***1***
with
expanded polyglutamine repeats and methods for the identification
and
treatment of neurodegenerative disorders

SO PCT Int. Appl., 125 pp.
 CODEN: PIXXD2

IN Botas, Juan; Zoghbi, Huda; Martinez, Pedro; Fernandez-Funez, Pedro;
 Nino-Rosales, Maria Laura; De Gouyon, Beatrice; She, Wei-Chi;
 Luchak,
 James

PY 2002
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L11 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Methods for identifying pesticidal compds. using gene ***sca***
 -1 for
 sarco-endoplasmic reticulum Ca²⁺ ATPase cloned from C. elegans

SO PCT Int. Appl., 205 pp.
 CODEN: PIXXD2

IN Zwaal, Richard; Kaletta, Titus; Van den Craen, Marc; Logghe, Marc;
 Smits,
 Elke; Van Creikinge, Wim; Bogaert, Thierry

PY 2002
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L11 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Proteins interacting with potassium channel proteins identified in
 two-hybrid systems

SO PCT Int. Appl., 259 pp.
 CODEN: PIXXD2

IN Rhodes, Kenneth; Betty, Maria; Ling, Huai-Ping; An, Wenqian

PY 2002
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L11 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Proteins interacting with potassium channel proteins identified in
 two-hybrid systems

SO U.S., 162 pp., Cont.-in-part of U.S. Ser. No. 350,614.
 CODEN: USXXAM

IN Rhodes, Kenneth; Betty, Maria; Ling, Huai-Ping; An, Wenqian

PY 2002
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L11 ANSWER 20 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
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TI Glyceraldehyde-3-phosphate dehydrogenase as a target for
antiapoptotic
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SO LeBlanc, Andrea C. [Editor]. Neuromethods, (2002) pp. 149-161.
Neuromethods. Apoptosis techniques and protocols. print.

Publisher: Humana Press Inc., 999 Riverview Drive, Suite 208,
Totowa, NJ,
07512, USA. Series: Neuromethods.

ISSN: 0893-2336. ISBN: 1-58829-012-3 (cloth).

AU Berry, Mark D. [Reprint author]; Ashe, Paula C.

PY 2002

L11 ANSWER 21 OF 46 MEDLINE on STN DUPLICATE 3

TI Analysis of SCA8 and SCA12 loci in 134 Italian ataxic patients
negative

for ***SCA1*** -3, 6 and 7 CAG expansions.

SO Journal of neurology, (2002 Jul) 249 (7) 923-9.

Journal code: 0423161. ISSN: 0340-5354.

AU Brusco Alfredo; Cagnoli Claudia; Franco Alessandra; Dragone Elisa;
Nardacchione Antonella; Grosso Enrico; Mortara Paolo; Mutani

Roberto;

Migone Nicola; Orsi Laura

PY 2002

L11 ANSWER 22 OF 46 MEDLINE on STN DUPLICATE 4

TI The KLHL1- ***antisense*** transcript (KLHL1AS) is
evolutionarily
conserved.

SO Mammalian genome : official journal of the International Mammalian
Genome

Society, (2002 Mar) 13 (3) 134-41.

Journal code: 9100916. ISSN: 0938-8990.

AU Benzow Kellie A; Koob Michael D

PY 2002

L11 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Gene therapy for genetic disease and cancer

SO Animal Cell Technology: Basic & Applied Aspects, Proceedings of the
Annual

Meeting of the Japanese Association for Animal Cell Technology,
13th,

Fukuoka and Karatsu, Japan, Nov. 16-21, 2000 (2002), Meeting Date
2000,

7-12. Editor(s): Shirahata, Sanetaka; Teruya, Kiichiro; Katakura,
Yoshinori. Publisher: Kluwer Academic Publishers, Dordrecht, Neth.
CODEN: 69CWTU; ISBN: 1-4020-0271-8

AU McIvor, R. Scott

PY 2002

L11 ANSWER 24 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
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TI PBX1 Suppresses the Hematopoietic Stem Cell Growth-Enhancing Effect
of

HOXB4.

SO Blood, (November 16 2002) Vol. 100, No. 11, pp. Abstract No. 1128.
print.

Meeting Info.: 44th Annual Meeting of the American Society of
Hematology.
Philadelphia, PA, USA. December 06-10, 2002. American Society of
Hematology.

CODEN: BLOOAW. ISSN: 0006-4971.

AU Kros1, Jana [Reprint Author]; Beslu, Nathalie [Reprint Author];
Mayotte,

Nadine [Reprint Author]; Humphries, Keith R. [Reprint Author];
Sauvageau,

Guy [Reprint Author]

PY 2002

L11 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Regulating cell motility by Ena/VASP protein modulators

SO PCT Int. Appl., 107 pp.

CODEN: PIXXD2

IN Gertler, Frank B.; Bear, James E.; Wehland, Jurgen; Loureiro,
Joseph J.

PY 2001

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L11 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Glutamate transporter associated proteins regulating glutamate
transport,

cytoskeletal organization and chloride flux

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

IN Rothstein, Jeffrey D.; Jackson, Mandy; Lin, Glen; Law, Robert;
Orlov,

Irina

PY 2001

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L11 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Nucleic acids and proteins associated with cancer as antitumor
targets

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

IN Burmer, Glenna C.; Brown, Joseph P.; Pritchard, David

PY 2001

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L11 ANSWER 28 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI C-myc ***antisense*** -treated hematopoietic stem cell
composition and

use in treating cancer

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

IN Bartelmez, Stephen H.; Iversen, Patrick L.

PY 2001

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L11 ANSWER 29 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
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TI Altered expression of n-NOS in the cerebellum of calcium channel
mutant

mice.

SO FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A1102. print.

Meeting Info.: Annual Meeting of the Federation of American

Societies for

Experimental Biology on Experimental Biology 2001. Orlando,
Florida, USA.

March 31-April 04, 2001.

CODEN: FAJOEC. ISSN: 0892-6638.

AU Rhyu, I. J. [Reprint author]; Abbott, L. C.; Hwang, S. J.; Oda, S.;
Frank,

T. C.; Kim, H. [Reprint author]; Suh, Y. S. [Reprint author]

PY 2001

L11 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Prostate stem cell antigen (PSCA) and its diagnostic and
immunotherapeutic

uses

SO PCT Int. Appl., 171 pp.

CODEN: PIXXD2

IN Reiter, Robert; Witte, Owen

PY 2000

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L11 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Proteins interacting with potassium channel proteins identified in
two-hybrid systems and datamining

SO PCT Int. Appl., 306 pp.

CODEN: PIXXD2

IN Rhodes, Kenneth; Betty, Maria; Ling, Huai-ping; An, Wenqian

PY 2000

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L11 ANSWER 32 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
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TI (Correction of Previews 200000335279. The SCA8 transcript is an

antisense RNA to a brain-specific transcript encoding a novel actin-binding protein (KLHL1). Correction of author names.).
SO Human Molecular Genetics, (1 November, 2000) Vol. 9, No. 18, pp. 2777.

print.

ISSN: 0964-6906.

AU Nemes, Jozsef P.; Benzow, Kellie A.; Moseley, Melinda L.; Ranum, Laura P.

W.; Koob, Michael D. [Reprint author]

PY 2000

L11 ANSWER 33 OF 46 MEDLINE on STN DUPLICATE 5

TI The SCA8 transcript is an ***antisense*** RNA to a brain-specific transcript encoding a novel actin-binding protein (KLHL1).

SO Human molecular genetics, (2000 Jun 12) 9 (10) 1543-51.
Journal code: 9208958. ISSN: 0964-6906.

AU Nemes J P; Benzow K A; Moseley M L; Ranum L P; Koob M D

PY 2000

L11 ANSWER 34 OF 46 MEDLINE on STN

TI Long-term multilineage expression in peripheral blood from a Moloney

murine leukemia virus vector after serial transplantation of transduced bone marrow cells.

SO Blood, (2000 Feb 1) 95 (3) 829-36.
Journal code: 7603509. ISSN: 0006-4971.

AU Austin T W; Salimi S; Veres G; Morel F; Ilves H; Scollay R; Plavec I

PY 2000

L11 ANSWER 35 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI A critical role for TGF-beta signalling in preventing exhaustion of hematopoietic stem cells in vivo.

SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 821a. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology.

San Francisco, California, USA. December 01-05, 2000. American Society of Hematology.

CODEN: BLOOAW. ISSN: 0006-4971.

AU Larsson, Jonas [Reprint author]; Helgadottir, Hildur [Reprint author];

Leveen, Per [Reprint author]; Karlsson, Stefan [Reprint author]

PY 2000

L11 ANSWER 36 OF 46 MEDLINE on STN DUPLICATE 6

TI Isolation of MYADM, a novel hematopoietic-associated marker gene expressed

in multipotent progenitor cells and up-regulated during myeloid differentiation.

SO Journal of leukocyte biology, (2000 Mar) 67 (3) 423-31.
Journal code: 8405628. ISSN: 0741-5400.

AU Pettersson M; Dannaus K; Nilsson K; Jonsson J I

PY 2000

L11 ANSWER 37 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation

on

STN
TI The ***antisense*** /sense transcriptional organization of
SCA8/KLHL1
is conserved in mouse.
SO American Journal of Human Genetics, (October, 2000) Vol. 67, No. 4
Supplement 2, pp. 364. print.
Meeting Info.: 50th Annual Meeting of the American Society of Human
Genetics. Philadelphia, Pennsylvania, USA. October 03-07, 2000.
American
Society of Human Genetics.
CODEN: AJHGAG. ISSN: 0002-9297.
AU Benzow, K. A. [Reprint author]; Koob, M. D. [Reprint author]
PY 2000

L11 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Methods and compositions for treating diseases mediated by
transglutaminase activity
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
IN Steinman, Lawrence; Karpuj, Marcella V.
PY 1999
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2004

L11 ANSWER 39 OF 46 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
on
STN
TI The SCA8 transcript is an ***antisense*** RNA to a brain-
specific
transcript encoding a novel actin-binding protein (KLHL1).
SO American Journal of Human Genetics, (Oct., 1999) Vol. 65, No. 4,
pp. A30.
print.
Meeting Info.: 49th Annual Meeting of the American Society of Human
Genetics. San Francisco, California, USA. October 19-23, 1999. The
American Society of Human Genetics.
CODEN: AJHGAG. ISSN: 0002-9297.
AU Koob, M. D. [Reprint author]; Moseley, M. L. [Reprint author];
Benzow, K.
A. [Reprint author]; Johnson, C. M. [Reprint author]; Nemes, J. P.
[Reprint author]; Ranum, L.P.W. [Reprint author]; Day, J. W.
[Reprint
author]
PY 1999

L11 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI ***Antisense*** compounds which prevent cell death and their
uses
SO PCT Int. Appl., 60 pp.
CODEN: PIXXD2
IN Troy, Carol M.; Shelanski, Michael L.
PY 1998
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2003

L11 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cloning of cDNA of the gene involved in type 2
spinocerebellar
ataxia and its use in the diagnosis and treatment of the

disease

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

IN Tsuji, Shoji; Sanpei, Kazuhiro

PY 1998

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L11 ANSWER 42 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI Novel human stem cell antigen homologs of ***Sca*** -2 and cDNAs encoding them and their use

SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2

IN Au-Young, Janice

PY 1998

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L11 ANSWER 43 OF 46 MEDLINE on STN

TI A comparison of in vivo gene delivery methods for ***antisense*** therapy in ligament healing.

SO Gene therapy, (1998 Nov) 5 (11) 1455-61.

Journal code: 9421525. ISSN: 0969-7128.

AU Nakamura N; Timmermann S A; Hart D A; Kaneda Y; Shrive N G; Shino K; Ochi

T; Frank C B

PY 1998

L11 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI The SCA2 gene involved in type 2 ***spinocerebellar***
ataxia

and its use in the diagnosis and treatment of the disease

SO PCT Int. Appl., 97 pp.

CODEN: PIXXD2

IN Pulst, Stefan-M.

PY 1997

2005

2004

2005

L11 ANSWER 45 OF 46 MEDLINE on STN

DUPLICATE 7

TI Altered proliferative response by T lymphocytes of Ly-6A (
Sca -1)

null mice.

SO Journal of experimental medicine, (1997 Aug 29) 186 (5) 705-17.

Journal code: 2985109R. ISSN: 0022-1007.

AU Stanford W L; Haque S; Alexander R; Liu X; Latour A M; Snodgrass H R;

Koller B H; Flood P M

PY 1997

L11 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2005 ACS on STN

TI ***Antisense*** genes and neuropeptides for the prevention and treatment of Huntington's disease and other neurological disorders

SO PCT Int. Appl., 69 pp.

CODEN: PIXXD2

IN Bergmann, Johanna Eugenie; Preddie, Rick E.
PY 1994
1995
1994
1994

=> d his

(FILE 'HOME' ENTERED AT 14:21:14 ON 17 SEP 2005)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE,
AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS,
BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,
CROPB,
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 14:22:13 ON 17
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E KAEMMERER W/AU
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0* FILE ADISINSIGHT
0* FILE ADISNEWS
0* FILE BIOCOMMERCE
6 FILE BIOSIS
8 FILE CAPLUS
0* FILE CIN
0* FILE DRUGMONOG2
0* FILE FOREGE
20 FILE IFIPAT
0* FILE IMSDRUGNEWS
0* FILE IMSPRODUCT
0* FILE IMSRESEARCH
0* FILE NUTRACEUT
0* FILE PCTGEN
0* FILE PHAR
0* FILE PHARMAML
0* FILE PHIC
0* FILE PHIN
0* FILE PROUSDDR
0* FILE RDISCLOSURE
4 FILE TOXCENTER
18 FILE USPATFULL
2 FILE USPAT2

L1 QUE "KAEMMERER WILLIAM F"/AU

FILE 'IFIPAT, CAPLUS, BIOSIS, TOXCENTER' ENTERED AT 14:23:40 ON 17
SEP 2005

L2 38 S L1
L3 26 DUP REM L2 (12 DUPLICATES REMOVED)
L4 4 S L3 AND SCA1

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 14:31:32 ON 17
SEP 2005

L5 12938 S SCA OR SCA1 OR ATAXIN-1 OR ATAXIN1 OR SPINOCEREBELLAR
(A)ATAXI
L6 107019 S ANTISENSE
L7 9194 S SIRNA

L8 18 S L5 AND L7
L9 12 DUP REM L8 (6 DUPLICATES REMOVED)
L10 64 S L5 AND L6
L11 46 DUP REM L10 (18 DUPLICATES REMOVED)

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FULL ESTIMATED COST

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